

CALIFORNIA REGIONAL WATER QUALITY CONTROL BOARD  
CENTRAL VALLEY REGION

ORDER NO. 94-304

WASTE DISCHARGE REQUIREMENTS  
FOR  
CITY OF STOCKTON  
FRENCH CAMP LANDFILL  
CLASS III LANDFILL  
SAN JOAQUIN COUNTY

The California Regional Water Quality Control Board, Central Valley Region, (hereafter Board), finds that:

1. The City of Stockton (hereafter Discharger) owns and operates the French Camp Landfill. The Discharger submitted: a Ground Water Investigation, dated February 1989; a Ground Water Monitoring Investigation, dated November 1989; a Verification Monitoring Program, dated 3 July 1990; a Report of Waste Discharge, dated 3 July 1990; an Article 5 Monitoring Proposal, dated 20 July 1992; Financial Assurance Documents, dated 30 March 1993; an Evaluation Monitoring Program, dated 1 April 1993; and Preliminary Closure and Post-Closure Maintenance Plans, dated June 1994.
2. The facility was previously regulated by Waste Discharge Requirements (WDR) Order No. 92-225 in conformance with Title 23, California Code of Regulations (CCR), Division 3, Chapter 15 (hereafter Chapter 15). Order No. 92-225 was amended 17 September 1993 by Order No. 93-200 implementing State Water Resources Control Board Resolution No. 93-62 and federal municipal solid waste regulations. These waste discharge requirements combine information from Order 92-225, amendments made by Order 93-200, and the Article 5 monitoring proposal.
3. French Camp Landfill is a 72-acre facility, comprised of Assessor's Parcel Numbers 163-070-13 and 163-070-14. The facility is within the City of Stockton, about 1 mile south of the downtown area, in Section 11, T1N, R6E, MDB&M, as shown in Attachment A, which is incorporated herein and made part of this Order. The City of Stockton has an agreement with Gambi Enterprises to provide services related to the operation and maintenance of the landfill.
4. This is an existing landfill that first operated in 1938. It was used as a burn dump and accepted Groups 2 and 3 (old classification) wastes. In 1957, the City rerouted the Group 2 wastes to another landfill. The facility then was used only for the disposal of demolition and garden wastes. The facility currently accepts only garden wastes and residential street sweepings.

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5. Refuse is in contact with ground water in the vicinity of well MW-1 and is the suspected source of VOCs in ground water from this well. VOCs have not been detected in water from the three down-gradient monitoring wells.
6. The Discharger is required to submit a Corrective Action Plan (CAP) pursuant to Chapter 15, Article 5 requirements to address water quality problems.

**WASTES AND THEIR CLASSIFICATION**

7. The Discharger proposes to continue to discharge the following to the limited Class III Landfill: a) residential street sweepings and garden wastes collected by the City Public Works Department and licensed landscapers and gardeners, b) park trimmings collected by the City's Park and Recreation Department, c) clean fill dirt, concrete free of reinforcing steel, and asphalt concrete, and d) wood wastes. These wastes are classified as 'nonhazardous solid waste' or 'inert waste' using the criteria set forth in Chapter 15. The discharge rate is about 107 tons per day.

**GEOLOGY**

8. The soils immediately underlying the landfill are lenticular units composed of clay, silt, and sand with minor amounts of gravel.
9. Published information indicates that no active faults occur within the site. The maximum probable earthquake for faults nearest the site range from 6.2 to 6.8 magnitude (Richter scale). The anticipated maximum ground acceleration is 0.4g.

**DESCRIPTION OF SITE**

10. The first water-bearing formation is approximately 3 to 4 feet below the base of the landfill. The hydraulic gradient is generally to the north-northeast toward pumping depressions northwest and east of Stockton; ground water flows at a velocity of at least 20 feet per year, but not more than 380 feet per year.
11. Land within 1000 feet of the facility is zoned residential within the City of Stockton's jurisdiction. Van Buskirk Park is adjacent to Walker Slough north of the site.
12. The beneficial uses of ground water are municipal and domestic supply, industrial process supply, and ground water recharge.

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13. The site is within the 100 year floodplain.
14. The site receives an average of 14 inches of precipitation per year as reported by the National Weather Service. The mean evaporation for this facility is 101 inches per year as measured between 1953 and 1979 at the Tracy Pumping Plant.
15. The 100 year, 24-hour precipitation event for the site is 3.8 inches.
16. Surface drainage is to French Camp Slough which is a tributary to the San Joaquin River.
17. The beneficial uses of these surface waters are municipal and domestic supply, agricultural supply, industrial process supply, ground water recharge, recreation, navigation, and freshwater habitat.

**OPERATION OF FACILITIES**

18. The area fill method is used at the site for current operations. The remaining landfill capacity will be filled in a similar manner but is proposed to be developed in four modules. In Module 1, filling will take place behind a screening berm, starting in the southernmost section of the module, and will advance in a northerly direction until the module is filled to final slope grade. Modules 2, 3, and 4 will be filled in 10-foot-thick lifts to final slope grade.
19. The Discharger's current plans indicate that the Limited Class III landfill will reach capacity, at the earliest, by the year 2010. The site has a projected additional capacity of 1.12 million cubic yards.
20. The Storm Water Pollution Prevention Plan (SWPPP) calls for a single sedimentation pond to be constructed adjacent to French Camp Slough, southeast of the landfill. Storm water runoff would collect in a perimeter ditch and flow to the sedimentation pond. The pond would discharge to French Camp Slough after it has reached capacity.
21. The natural geologic materials between the base of the landfill and ground water may not prevent the impairment of beneficial uses of ground water from the discharge of nonhazardous solid wastes to the landfill during operation, closure, and the post-closure maintenance period.

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**FINANCIAL ASSURANCES**

22. The Discharger has obtained and maintained financial assurances of financial responsibility for initiating and completing corrective action for all known and reasonably foreseeable releases from the waste management units. Such assurances or funds for corrective action consist of a cost estimate for cleaning up all known or foreseeable releases from the landfill and a Certificate of Self-Insurance and Risk Management.

**CEQA AND OTHER CONSIDERATIONS**

23. The action to revise WDRs for this facility is exempt from the provisions of the California Environmental Quality Act (Public Resources Code Section 21000, et seq.), in accordance with Title 14, CCR, Section 15301.
24. On 9 October 1991, the United States Environmental Protection Agency (USEPA) promulgated regulations (Title 40, Code of Federal Regulations, Parts 257 and 258, "federal MSW regulations" or "Subtitle D") that apply, in California, to dischargers who own or operate Class II or Class III landfill units at which municipal solid waste (MSWLF) is discharged. The majority of the federal MSW regulations became effective on the "Federal Deadline", which is 9 October 1993.
25. This Order implements
- a. the Water Quality Control Plan for the San Joaquin River Basin (5B), Second Edition;
  - b. the prescriptive standards and performance goals of Chapter 15, Division 3, Title 23 of the California Code of Regulations, effective 27 November 1984, and subsequent revisions;
  - c. the prescriptive standards and performance criteria of Part 258, Title 40 of the Code of Federal Regulations (Subtitle D of the Resource Conservation and Recovery Act); and
  - d. State Water Resources Control Board Resolution No. 93-62, Policy for Regulation of Discharges of Municipal Solid Waste, adopted 17 June 1993.

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**PROCEDURAL REQUIREMENTS**

26. All local agencies with jurisdiction to regulate land use, solid waste disposal, air pollution, and to protect public health have approved the use of this site for the discharges of waste to land stated herein.
27. The Board has notified the Discharger and interested agencies and persons of its intention to revise the waste discharge requirements for this facility.
28. In a public hearing, the Board heard and considered all comments pertaining to this facility and discharge.

IT IS HEREBY ORDERED that Order No. 92-225 is rescinded and Attachment I of Order 93-200 is amended to delete City of Stockton, DPW (for the French Camp Landfill), and it is further ordered that the City of Stockton and its agents, assigns and successors, in order to meet the provisions contained in Division 7 of the California Water Code and regulations adopted thereunder, shall comply with the following:

**A. DISCHARGE PROHIBITIONS**

1. The discharge of waste other than the following: a) residential street sweepings and garden wastes collected by the City Public Works Department and licensed landscapers and gardeners, b) park trimmings collected by the City's Park and Recreation Department, c) clean fill dirt, concrete free of reinforcing steel, and asphalt concrete, and d) wood wastes, is prohibited. These wastes are classified as 'nonhazardous solid waste' or 'inert waste' using the criteria set forth in Chapter 15. The discharge of 'hazardous waste' or 'designated waste' at this site is prohibited.
2. Discharges of waste outside the existing footprint is prohibited.
3. The discharge to landfill units of liquid or semi-solid waste (i.e., waste containing less than 50% solids) is prohibited.
4. The discharge to landfill modules of solid waste containing free liquid or moisture in excess of the waste's moisture holding capacity is prohibited.

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5. The discharge of containerized liquids at this facility is prohibited.
6. The discharge of solid or liquid waste or leachate to surface waters, surface water drainage courses, or to ground water is prohibited.
7. The discharge of waste to ponded water from any source is prohibited.
8. The discharge of waste within 50 feet of surface waters not related to landfill drainage structures is prohibited.
9. The discharge of wastes which have the potential to reduce or impair the integrity of containment structures or which, if commingled with other wastes in the unit, could produce violent reaction, heat or pressure, fire or explosion, toxic by-products, or reaction products which in turn:
  - a. require a higher level of containment than provided by the unit;
  - b. are restricted 'hazardous wastes'; or
  - c. impair the integrity of containment structures, is prohibited.

**B. DISCHARGE SPECIFICATIONS**

**General Specifications**

1. Wastes, as specified in Finding No. 7, shall only be discharged into, and shall be confined to, the existing footprint.
2. Wastes shall not be discharged below an elevation of 10 feet, mean sea level (MSL). A minimum separation of 5 feet shall be maintained between wastes or leachates and the highest anticipated elevation of underlying ground water including the capillary fringe.
3. All wells within 500 feet of the landfill shall be sealed or abandoned to the satisfaction of the San Joaquin County Public Health Services Department. A record of the sealing and/or abandonment of such wells shall be sent to the Board and to the State Department of Water Resources.
4. Neither the treatment nor the discharge of wastes shall cause a pollution or nuisance as defined by the California Water Code, Section 13050.

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**General Waste Management Unit Construction**

5. Clay landfill caps shall have a hydraulic conductivity of  $10^{-6}$  cm/s or less and a minimum relative compaction of 90%. Hydraulic conductivities of liner materials shall be determined by laboratory tests using solutions with similar properties as the fluids that will be contained. Hydraulic conductivities of cap materials shall be determined by laboratory tests using water. Hydraulic conductivities determined through laboratory methods shall be confirmed by field testing in accordance with the Standard Provisions and Reporting Requirements as described in Provision D.1.

**Protection From Storm Events**

6. Precipitation and drainage control systems shall be designed, constructed and maintained to accommodate the anticipated volume of precipitation and peak flows from surface runoff under 100-year, 24-hour precipitation conditions.
7. Waste management units shall be designed, constructed and operated in compliance with precipitation and flood conditions contained in the Standard Provisions and Reporting Requirements referenced in Provision D.1, below.
8. Annually, prior to the anticipated rainy season, any necessary erosion control measures shall be implemented, and any necessary construction, maintenance, or repairs of precipitation and drainage control facilities shall be completed to prevent erosion or flooding of the site and to prevent surface drainage from contacting or percolating through wastes.
9. If located in a 100-year floodplain, landfill units shall not restrict the flow of the 100-year flood, reduce the temporary water storage capacity of the floodplain or result in washout of solid waste so as to pose a hazard to human health and the environment. Those units which cannot comply with this requirement shall close by October 9, 1996, unless otherwise extended by the Board (40 CFR 258.16).

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**Landfill Specifications**

10. Wastes, as specified in Finding No. 7, shall be discharged to that portion of the landfill which has received wastes (i.e. that active portion of the landfill which is within the boundaries of the Existing Footprint).
11. Landfill leachate shall be disposed of by a Board-approved method.

**Landfill Closure Specifications**

12. At closure, the unlined modules shall receive a final cover consisting, at a minimum, of a two-foot thick foundation layer which may contain waste materials, overlain by a one-foot thick clay liner, and finally by a one-foot thick vegetative soil layer, or an engineered equivalent final cover approved by the Board pursuant to Subsections 2510(b) and (c) of Chapter 15.
13. Vegetation shall be planted and maintained over each closed landfill unit. Vegetation shall be selected to require a minimum of irrigation and maintenance and shall have a rooting depth not in excess of the vegetative layer thickness.
14. Closed landfill units shall be graded to at least a three percent grade and maintained to prevent ponding.

**C. RECEIVING WATER LIMITATIONS**

**Water Quality Protection Standards**

The concentrations of Constituents of Concern in waters passing through the Points of Compliance shall not exceed the Concentration Limits established pursuant to Monitoring and Reporting Program No. 94-304, which is attached to and made part of this Order.

**D. PROVISIONS**

1. The Discharger shall comply with the Standard Provisions and Reporting Requirements, dated September 1993, which are hereby incorporated into this Order. The Standard Provisions and Reporting Requirements contain important



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provisions and requirements with which the Discharger must comply. A violation of any of the Standard Provisions and Reporting Requirements is a violation of these waste discharge requirements.

2. The Discharger shall comply with all applicable provisions of 23 CCR Chapter 15 and 40 CFR Part 258 that are not specifically referred to in this Order.
3. The Discharger shall comply with Monitoring and Reporting Program No. 94-304, which is attached to and made part of this Order. This compliance includes, but is not limited to, maintenance of waste containment facilities and precipitation and drainage controls and monitoring ground water, leachate from the landfill units, the vadose zone and surface waters, throughout the active life of the waste management units and the post-closure maintenance period. A violation of Monitoring and Reporting Program No. 94-304 is a violation of these waste discharge requirements.
4. The Discharger shall maintain legible records of the volume and type of each waste discharged at each WMU and the manner and location of the discharge. Such records shall be maintained at the facility until the beginning of the post-closure maintenance period. These records shall be available for review by representatives of the Board and of the State Water Resources Control Board at any time during normal business hours. At the beginning of the post-closure maintenance period, copies of these records shall be sent to the Regional Board.
5. The Discharger shall provide proof to the Board **within sixty days after completing final closure** that the deed to the landfill facility property, or some other instrument that is normally examined during title search, has been modified to include, in perpetuity, a notation to any potential purchaser of the property stating that:
  - a. the parcel has been used as a municipal solid waste landfill (MSWLF);
  - b. land use options for the parcel are restricted in accordance with the post-closure land uses set forth in the post-closure plan and in WDRs for the landfill; and

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- c. in the event that the Discharger defaults on carrying out either the post-closure maintenance plan or any corrective action needed to address a release, then the responsibility for carrying out such work falls to the property owner.
6. The post-closure maintenance period shall continue until the Board determines that remaining wastes in all landfill units will not threaten water quality.
7. The Board will review this Order periodically and may revise requirements when necessary.
8. The owner of the waste management facility shall have the continuing responsibility to assure protection of usable waters from discharged wastes and from gases and leachate generated by discharged waste during the active life, closure, and post-closure maintenance period of the landfill and during subsequent use of the property for other purposes.
9. The Discharger shall complete the tasks outlined in these WDRs and the attached Monitoring and Reporting Program No. 94-304 in accordance with the following time schedule:

	<u>Task</u>	<u>Compliance Date</u>
a)	Submit an Engineering Feasibility Study for Corrective Action	15 March 1995
b)	Submit a Corrective Action Program	15 March 1995
c)	Submit an amended Report of Waste Discharge	15 March 1995
d)	Submit concentration limits for the constituents listed in the Monitoring and Reporting Program No. 94-304	15 December 1995

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**E. REPORTING REQUIREMENTS**

1. The Discharger shall comply with the reporting requirements specified in this Order, in Monitoring and Reporting Program Order No. 94-304 and in the Standard Provisions and Reporting Requirements.
2. The Discharger shall submit a closure and post-closure maintenance plan (or submit suitable modifications to a pre-existing plan), that complies with 40 CFR 258.60 and 258.61, with Article 8 of Chapter 15 and with Title 14 of the CCR.
3. The Discharger shall notify the Board in writing of any proposed change in ownership or responsibility for construction or operation of the WMUs. The Discharger shall also notify the Board of a material change in the character, location or volume of the waste discharge and of any proposed expansions or closure plans. This notification shall be given 90 days prior to the effective date of the change and shall be accompanied by an amended Report of Waste Discharge and any technical documents that are needed to demonstrate continued compliance with these WDRs.
4. In the event of any change in ownership of this waste management facility, the Discharger shall notify the succeeding owner or operator in writing of the existence of this Order. A copy of that notification shall be sent to the Board.
5. The Discharger shall submit a status report regarding the financial assurances for corrective action and closure every five years after the date of adoption of these requirements that either validates the ongoing viability of the financial instrument or proposes and substantiates any needed changes.
6. The Discharger shall immediately notify the Board of any flooding, equipment failure, slope failure, or other change in site conditions which could impair the integrity of waste or leachate containment facilities or of precipitation and drainage control structures.
7. The Discharger or persons employed by the Discharger shall comply with all notice and reporting requirements of the State Department of Water Resources with regard to the construction, alteration, destruction, or abandonment of all monitoring wells used for compliance with this Order or with Monitoring and

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Reporting Program No. 94-304 is required by Section 13750 through 13755 of the California Water Code.

8. The method used to close each module at the facility and maintain protection of the quality of surface and ground waters shall comply with waste discharge requirements established by the Board.

I, WILLIAM H. CROOKS, Executive Officer, do hereby certify the foregoing is a full, true and correct copy of an Order adopted by the California Regional Water Quality Control Board, Central Valley Region, on 28 October 1994.



WILLIAM H. CROOKS, Executive Officer

Attachments